1. **What I Learned** CLI Is Text based only. CLI can be the only interface available. You can access CLI From Terminal on the GUI. Terminal app saves the history of everything typed. The history command will list all command executed in the CLI, so if you forget a command you can use history to find the command you preformed. SELinux stand for Security enhanced Linux. This is a more advanced access control mechanism built into most Linux distributions. SELinux must be properly configured to be effective. The SU command stand for Switch user.

2. **Questions** *Answer the 4 questions listed below and document all research on the last page and title it 'Sources'. (APA style is not required)*

Step 1: Assignment Prep

Make sure you have the following:

- Access to your Virtual Lab environment
- Ubuntu VM

Step 2: Instructions

In the video lesson, you were asked questions and provided with information to help you answer the questions. You were also introduced to fun apps that can be installed in the terminal. Using your Ubuntu VM on the virtual lab, you will research the following topics to find the answers and explore installing apps using the terminal.

- The 'su' command and how to use it.
- SELinux, what is it, why is it installed, and can it be disabled?
- Explore the fun apps you can install using the terminal.

After you have researched the above topics, you will then answer the following questions.

1. How do you use the 'su' command and what changes? The su command stand for "switch user" or "substitute user". Using this command in the CLI allows you to run commands as a different user than the one you are currently logged in as. The main use for this is for let's say a IT guy it update a standard users account using their credentials instead of the users who doesn't have permission to do so.

2. Can you disable SELinux? (DO NOT ATTEMPT TO DISABLE OR ENABLE IN YOUR UBUNTU MACHINE) Yes, you can disable SELinux by editing /etc/selinux/config file and changing SELINUX=enforcing to SELINUX=disabled.

3. Can you add additional repositories? Yes, you can add additional repositories by using the command sudo add-apt-repository. This command does have a prerequisite that software-properties-common package be installed.

4. What fun apps did you install using the CLI on Ubuntu? Steam locomotive, fortune, cowsay, toilet, and cmatrix

Step 3: Installing Apps in Ubuntu

Use your Ubuntu VM on the virtual lab to perform the installations from the linked sources below.

You may pick whichever apps you want to install and use for your write-up. You can take screenshots of the apps running in the terminal window. You must select at least 5 apps to install.

Please use the links below to access the sites where you will learn more about the apps and how to install them.
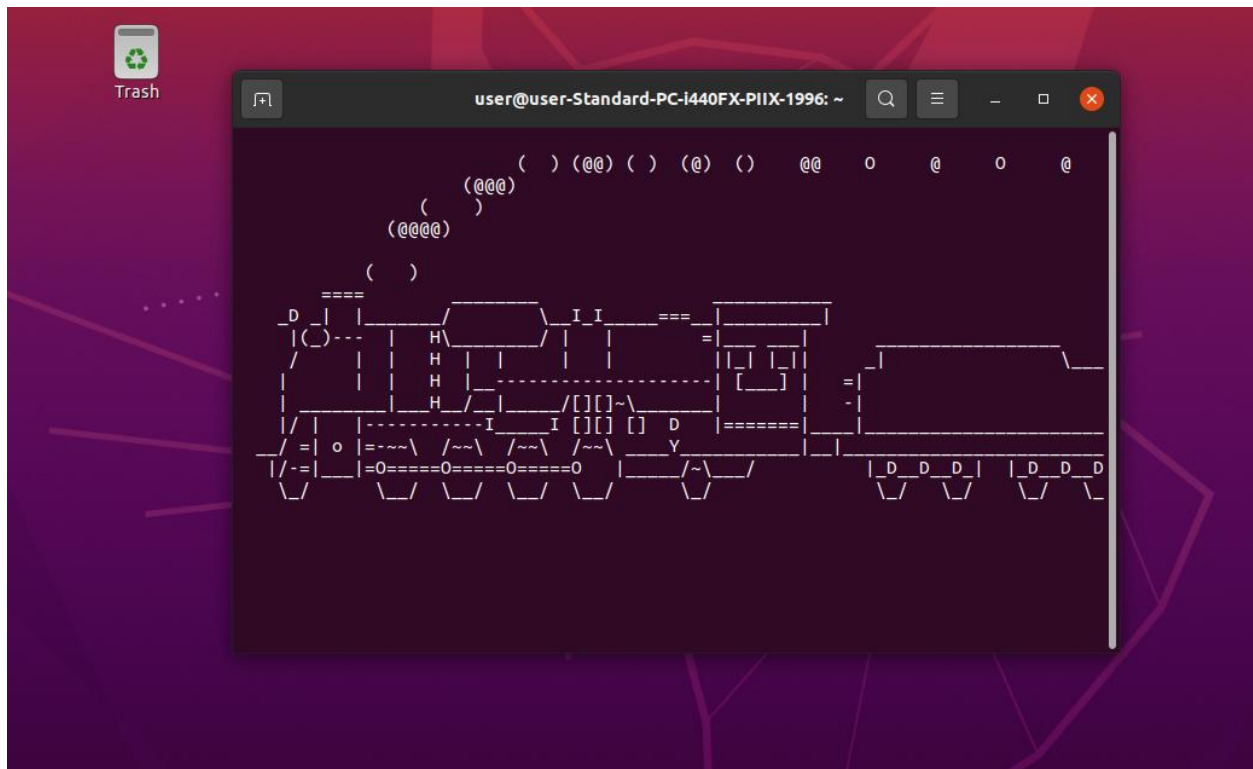
```
Selecting previously unselected package fortune-mod.
Preparing to unpack .../fortune-mod_1%3a1.99.1-7build1_amd64.deb ...
Unpacking fortune-mod (1:1.99.1-7build1) ...
Selecting previously unselected package fortunes-min.
Preparing to unpack .../fortunes-min_1%3a1.99.1-7build1_all.deb ...
Unpacking fortunes-min (1:1.99.1-7build1) ...
Setting up librecode0:amd64 (3.6-24) ...
Setting up fortunes-min (1:1.99.1-7build1) ...
Setting up fortune-mod (1:1.99.1-7build1) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.18) ...
user@user-Standard-PC-i440FX-PIIX-1996:~$ fortune
Must I hold a candle to my shames?
            -- William Shakespeare, "The Merchant of Venice"
user@user-Standard-PC-i440FX-PIIX-1996:~$ fortune
For there are moments when one can neither think nor feel.  And if one can
neither think nor feel, she thought, where is one?
            -- Virginia Woolf, "To the Lighthouse"

        [Quoted in "VMS Internals and Data Structures", V4.4, when
         referring to powerfail recovery.]
user@user-Standard-PC-i440FX-PIIX-1996:~$ fortune
Of course you have a purpose -- to find a purpose.
user@user-Standard-PC-i440FX-PIIX-1996:~$
```

```
user@user-Standard-PC-i440FX-PIIX-1996:~$ cowsay i love linux
 _____
< i love linux >
 -------------
        \   ^__^
         \  (oo)_____
            (__)\       )\/\
                ||----w |
                ||     ||
user@user-Standard-PC-i440FX-PIIX-1996:~$
```

```
Unpacking toilet (0.3-1.2) ...
Setting up toilet-fonts (0.3-1.2) ...
Setting up toilet (0.3-1.2) ...
update-alternatives: using /usr/bin/figlet-toilet to provide /usr/bin/figlet (fi
glet) in auto mode
Processing triggers for man-db (2.9.1-1) ...
user@user-Standard-PC-i440FX-PIIX-1996:~$ toilet i love this class
```

Sources:

1:
https://www.google.com/search?q=The+%27su%27+command+and+how+to+use+it&sca_esv=1cd912c63e8479c3&rlz=1C1RXQR_enUS1132US1132&sxsrf=AE3TifOf35yxusnv3zTMxg0WAXW3sTw11A%3A1757679343327&ei=7w7EaNfWE7mFwbkPm8ql6Q4&ved=0ahUKEwiXio3nmdOPAxW5QjABHRtlKe0Q4dUDCBA&uact=5&oq=The+%27su%27+command+and+how+to+use+it&gs_lp=Egxnd3Mtd2l6LXNlcnAillRoZSAnc3UnIGNvbW1hbmQgYW5kIGhvdyB0byB1c2UgaXQyBBAAGB4yCxAAGIAEGIYDGIoFMggQABiABBiiBDIFEAAY7wUyBRAAGO8FSPALUMIlWPcJcAF4AZABAJgBXqABpwGqAQEyuAEDyAEA-AEBmAIDoAKxAcICChAAGLADGNYEGEeYAwCIBgGQBgiSBwEzoAeOCLIHATK4B64BwgcFMC4yLjHIBwg&sclient=gws-wiz-serp

2:
https://www.google.com/search?q=can+you+disable+SELinux&sca_esv=1cd912c63e8479c3&rlz=1C1RXQR_enUS1132US1132&sxsrf=AE3TifN9dIlFBqaLEMKkTW_UIU0JmM-auQ%3A1757679347782&ei=8w7EaJbAL4yNwbkPmsDS4Ak&ved=0ahUKEwjWhZ3pmdOPAxWMRjABHRqgFJwQ4dUDCBA&uact=5&oq=can+you+disable+SELinux&gs_lp=Egxnd3Mtd2l6LXNlcnAiF2NhbiB5b3UgZGlzYWJsZSBTRUxpbnV4MgUQABiABDIFEAAYgAQyBxAAGKkGGB4yBhAAGBYXHjIGEAAYFhgeMgsQABiABBiGAxiKBTILEAAYgAQYhgMYigUyCBAAGKIEGIkFSNp0UABY-3JwD3gBkAEAmAFzoAGYFaoBBDM1LjG4AQPIAQD4AQGYAjOgAqoWwglKECMYgAQYJxiKBcICCxAAGIAEGJECGIoFwglEEAAYA8ICChAAGIAEGGMYigXCAg4QLhiABBixAxiDARiKBcICBBAjGCfCAhAQABiABBixAxhDGIMBGIoFwglWEC4YgAQYsQMY0QMYQxiDARjHARiKBcICERAuGIAEGLEDGNEDGIMBGMcBwglOEC4YgAQYsQMY0QMYxwHCAgsQLhiABBixAxiDAcICCxAAGIAEGLEDGIMBGMcBwglOEAAYgAQYsQMYgwEYigXCAggQABiABBixA8ICDRAuGIAEGLEDGEGMYigXCAgcQLhiABBgKwglHEAAYgAQYsICBxAjGLECGCfCAg0QABiABBixAxiDARgKwglKEAAYgAQYsQMYCsICBxAAGIAEGA3CAgcQIxiwAhgnwglNEAAYgAQYsQMYgwEYDcICChAAGIAEGLEDGGGA3CAgUQLhiABMICFBAuGIAEGJcFGNwEGN4EGOAE2AEBwglFEAAY7wWYAwC6BgYIARARBGBSSBwQ0OS4yoAfxqQKyBwQzNC4yuAeEFsIHBjAuNDIuOcgHgAE&sclient=gws-wiz-serp

3:
https://www.google.com/search?q=can+you+add+additional+repositories+in+ubuntu&sca_esv=1cd912c63e8479c3&rlz=1C1RXQR_enUS1132US1132&sxsrf=AE3TifPKLht5inxSQ1TZlxGP4yQXej7Cpw%3A1757679653296&ei=JRDEaK3nEcuKwbkPiKnSYQ&oq=can+you+add+&gs_lp=Egxnd3Mtd2l6LXNlcnAiDGNhbiB5b3UgYWRkICoCCAAyChAAGIAEGEMYigUyBRAAGIAEMgUQABiABDIFEAAYgAQyBRAAGIAEMgUQABiABDIFEAAYgAQyBRAAGIAEMgUQABiABDIFEAAYgARI6CJQAFjkGHACeAGQAQCYAWegAeoHqgEEMTMuMbgBA8gBAPgBAZgCEKACp

QjCAhEQLhiABBixAxjRAxiDARjHAcICBBAAGAPCAg4QLhiABBixAxiDARiKBcICCBAAGIAEGLEDwgIOEAAYgAQYsQMYgwEYigXCAgoQIxiABBgnGIoFwgIEECMYJ8ICCxAAGIAEGLEDGIMBwgIOEC4YgAQYsQMY0QMYxwHCAggQLhiABBjlBMICCxAuGIAEGLEDGIMBwgILEC4YgAQY0QMYxwHCAgsQABiABBixAxiKBcICBxAuGIAEGAqYAwCSBwQxNS4xoAeolAGyBwQxMy4xuAefCMIHBTAuOC44yAc0&sclient=gws-wiz-serp